USMC High Speed Vessel Project Overview

26 January 2004

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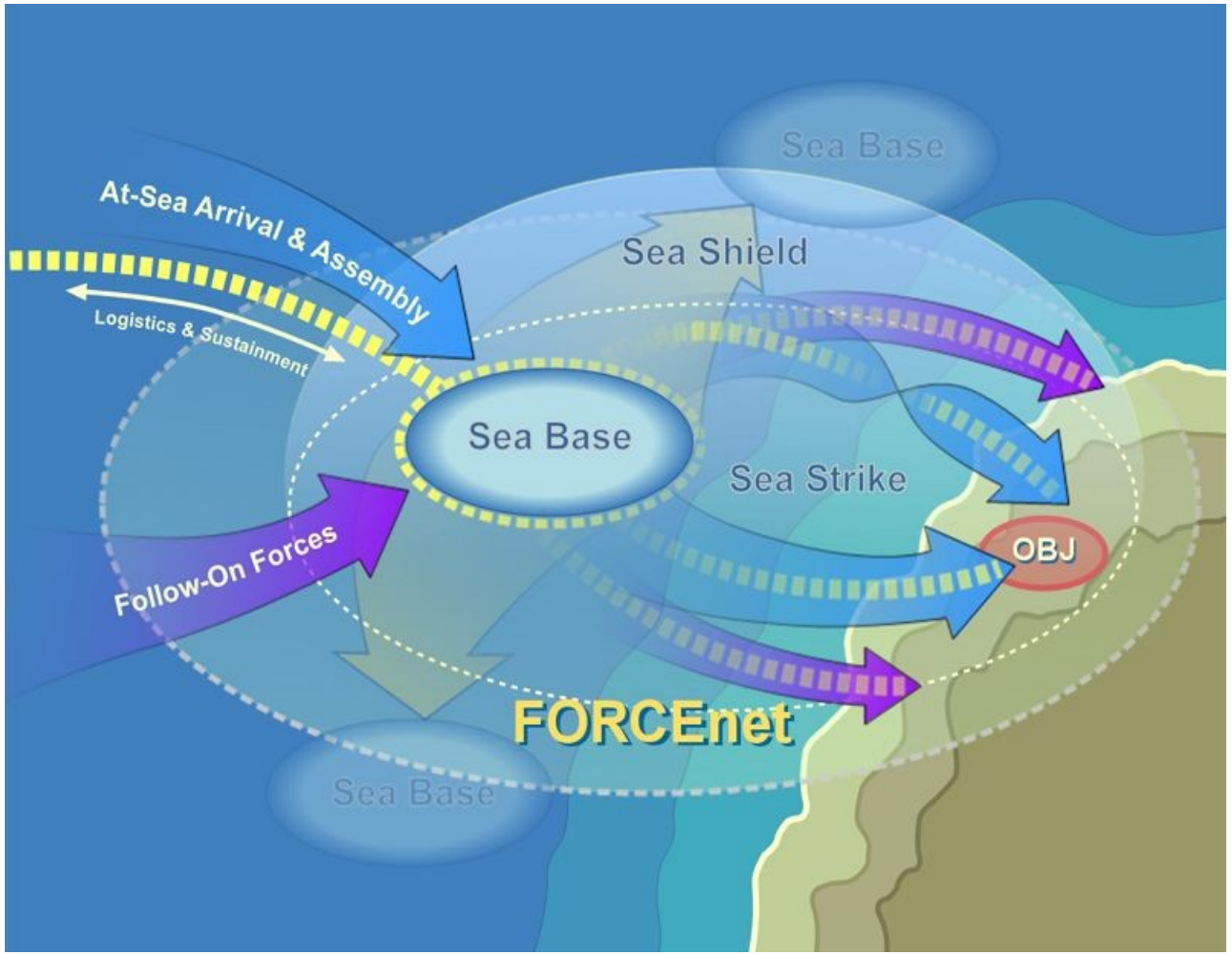
Outline

- **Background**
- **Project Successes**
- **USMC Experimentation and S&T Plans**

Background

- **USMC focused on potential of high-speed, shallow draft craft as Seabase Connectors**
- **S&T focused on FY08 procurement of US built HSC**
- **SWIFT, “second generation” connector, delivered in Aug 03**

High Speed Connectors



Project Successes

- World Wide Employment
- Support of Major Exercises
- Employment in Operation IRAQI FREEDOM
- “2nd Generation” Vessel --- SWIFT

HSVs In OIF

IRAQI FREEDOM

- Supported NSW/FAST GOPLAT seizure
- AFSB for Naval Special Warfare Units
- Intra-theater lift in support of Marine Logistic Command
- Operational missions iso SOCOM in the JTF Horn of Africa AO

OIF Lessons Learned

- Deployed to theater … 20 day transit
- HSV provided new options for Naval and Joint Force Commanders
- Critical Capabilities to be maintained
  - Open, RO/RO mission deck
  - Boat launch/recovery capability
  - Shallow draft, low freeboard
  - Precision Maneuverability and Navigation

SWIFT (HSV-2)

UNCLASSIFIED

Swift Operations Since Delivery

4 AORs in 93 Days

- **Ship Delivery to Deployment - 9 days**
- **Departure to arrival in 5th Flt AOR – 18 days**
- **OEF/OIF – 45 days**
- **WATC – 30 days**

SWIFT Enhancements

- **Improved Habitability**
- **Improved Ride**
- **Improved Hull Design**
- **Improved Ramp**
- **Day/Night Helo Deck**

S&T Focus Areas

- **At-sea interface capability**
- **Littoral Access/Beach Interfaces**
  - **Rapid Port Enhancement, Chart Studies**
- **Instrumentation of Ramp & Structural Components**
- **MOGAS storage and distribution**
- **Organic fendering systems**
- **Cargo Handling system**
  - **ARMY roller system test**
- **Craft launch & recovery mechanism**

Experimentation Plan

- **Experimentation and Concept Development ongoing, guided by Campaign Plan**
- **Leverage existing, TEEP'd events**
- **Insert other emerging technologies where possible …**
  - **DDCF, motion compensating crane, Light weight ROWPU, FAST (MOGAS storage), ILP**

Completed Experimentation

- ✓ **WATC 04**
  - **Maneuver Platform for Company sized MAGTF**
  - **Riverine Operations**
  - **Amphibious Raids**
  - **Austere port operations**
- ✓ **Causeway Interoperability (Dec 03)**
- ✓ **ARMY Rotary Wing Compatibility (Dec 03)**

Experimentation Schedule

- **JLOTS 04**
  - **At-sea transfers employing emerging crane and fendering technologies**
  - **Support to dispersed JLOTS offload**
  - **RRDF and Causeway interoperability**
  - **MPF(F) ILP experimentation**
  - **Austere port operations**

Transition

- **PEO Ships – PEO CS & CSS MOA**
- **Army-Marine Corps Board**
  - **Directed greater cooperation with TSV program**
- **Naval HSC IPT formed Nov 03**
  - **Co-chaired by CG MCCDC, N7**
  - **Develop CONOPS, explore potential JPO**
  - **Membership: OPNAV and HQMC staffs, Fleet/Operating Forces, NAVSEA, MSC, NWDC, MPF(F), CASCOM, TACOM**
- **Funding: RDTE,N in FY07-09 for initial acquisition**

Future R&D Plans

Work to continue in:

- At-sea transfer of cargo and personnel.
- Skin-to-skin ops.
- Cargo handling.
- Launch and recovery of vehicles/craft.

SOME FUNDS STILL AVAILABLE FOR RELEVANT JOINT R&D EFFORTS.